

Bibliography

61-1 Chemical Identity

MRID	Citation Reference
45000201	Smith, A.; Otterbacher, E. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, Preliminary Analysis, and Enforcement Analytical Methods for Cyhalofop-butyl Technical: Lab Project Number: NAFST129: PA-AM-95-7: GHE-P-4911. Unpublished study prepared by Dow AgroSciences LLC. 205 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}
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61-2 Description of Beginning Materials and Manufacturing Proces

MRID	Citation Reference
45000201	Smith, A.; Otterbacher, E. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, Preliminary Analysis, and Enforcement Analytical Methods for Cyhalofop-butyl Technical: Lab Project Number: NAFST129: PA-AM-95-7: GHE-P-4911. Unpublished study prepared by Dow AgroSciences LLC. 205 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}
45000202	Ogawa, T. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical for Clincher Herbicide; an End-use Product Containing Cyhalofop-Butyl: Lab Project Number: NAFST157: EU-AM-95-7. Unpublished study prepared by Dow AgroSciences LLC. 86 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.1800}

61-3 Discussion of Formation of Impurities

MRID	Citation Reference
45000201	Smith, A.; Otterbacher, E. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, Preliminary Analysis, and Enforcement Analytical Methods for Cyhalofop-butyl Technical: Lab Project Number: NAFST129: PA-AM-95-7: GHE-P-4911. Unpublished study prepared by Dow AgroSciences LLC. 205 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}
45000202	Ogawa, T. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical for Clincher Herbicide; an End-use Product Containing Cyhalofop-Butyl: Lab Project Number: NAFST157: EU-AM-95-7. Unpublished study prepared by Dow AgroSciences LLC. 86 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.1800}

62-1 Preliminary Analysis

MRID	Citation Reference
45000201	Smith, A.; Otterbacher, E. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, Preliminary Analysis, and Enforcement Analytical Methods for Cyhalofop-butyl Technical: Lab Project Number: NAFST129: PA-AM-95-7: GHE-P-4911. Unpublished study prepared by Dow AgroSciences LLC. 205 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}

62-2 Certification of limits

MRID	Citation Reference
45000201	Smith, A.; Otterbacher, E. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, Preliminary Analysis, and Enforcement Analytical Methods for Cyhalofop-butyl Technical: Lab Project Number: NAFST129: PA-AM-95-7: GHE-P-4911. Unpublished study prepared by Dow AgroSciences LLC. 205 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}
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62-3 Analytical Method

MRID	Citation Reference
45000201	Smith, A.; Otterbacher, E. (1999) Group A: Product Identity and Composition, Description of Materials used to Produce the Product, Discussion of Formation of Impurities, Certified Limits, Preliminary Analysis, and Enforcement Analytical Methods for Cyhalofop-butyl Technical: Lab Project Number: NAFST129: PA-AM-95-7: GHE-P-4911. Unpublished study prepared by Dow AgroSciences LLC. 205 p. {OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1700, 830.1750, 830.1800}
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MRID	Citation Reference
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72-2 Acute Toxicity to Freshwater Invertebrates

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72-4 Fish Early Life Stage/Aquatic Invertebrate Life Cycle Study

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72-6 **Aquatic org. accumulation**

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81-1 **Acute oral toxicity in rats**

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81-2 **Acute dermal toxicity in rabbits or rats**

MRID	Citation Reference
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81-3 Acute inhalation toxicity in rats

MRID	Citation Reference
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81-5 Primary dermal irritation

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81-6 Dermal sensitization

MRID	Citation Reference
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81-8 Acute neurotoxicity screen study in rats

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82-1 Subchronic Oral Toxicity: 90-Day Study

MRID	Citation Reference
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82-3 90-day dermal-rodent

MRID	Citation Reference
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83-1 Chronic Toxicity

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83-2 Oncogenicity

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83-4 2-generation repro.-rat

MRID	Citation Reference
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85-1 General metabolism

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45000424	Takahashi, H. et al. (1992) XDE-537 BE: General Pharmacological Study (in Mice and Rabbits): Lab Project Number: IET 91-0118. Unpublished study prepared by The Institute of Environmental Toxicology. 66 p.
45000425	Ninomiya, S. et al. (1995) XRD-537 BE: Absorption, Metabolism and Excretion Preliminary Study in the Dog: Lab Project Number: GHF-R-295: AE-1528-3G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 191 p.
45000426	Ninomiya, S. et al. (1995) XRD-537 BE: Absorption, Metabolism and Excretion Preliminary Study in the Fischer Rat: Lab Project Number: GHF-R-298: DPC/AE-1528-2G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 574 p.
45000427	Ninomiya, S. et al. (1995) XRD-537 BE: Absorption, Metabolism and Excretion Preliminary Study in the Fischer Rat: Lab Project Number: GHF-R-297: DPC/AE-1528-4G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 487 p.

85-3 Dermal Penetration/Absorption

MRID	Citation Reference
45000505	Dryzga, M.; Domoradzki, J.; Hansen, S. (1998) DE-537 N-Butyl Ester: Dermal Absorption of (carbon 14)-DE-537 N-Butyl Ester in Male Fischer 344 Rats Following Exposure to Undiluted EF-1218 and a Spray Solution: Lab Project Number: 981090. Unpublished study prepared by The Dow Chemical Co. 100 p.

122-1 Seed Germination/Seedline Emergence and Vegetable Vigor

MRID	Citation Reference
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45000430

Porch, J.; Krueger, H.; Roberts, D. (1999) Effect of Cyhalofop Soil Metabolites on Non-Target Terrestrial Plants (Tier I/II): Lab Project Number: 990026: 379-102. Unpublished study prepared by Wildlife International Ltd. 142 p. {OPPTS 850.4100, 850.4150, 850.4225, 850.4250}

45000431

Schwab, D. (1999) Effect of Cyhalofop-Butyl on the Seedling Emergence and Vegetative Vigor of Non-Target Terrestrial Plants: Lab Project Number: ENV98052: 44918. Unpublished study prepared by ABC Laboratories, Inc. 77 p. {OPPTS 850.4100, 850.4150, 850.4225, 850.4250}

122-2 Aquatic plant growth

MRID	Citation Reference
45000428	Kelly, C. et al. (1997) DE-537 Technical: Higher Plant (Lemna) Growth Inhibition: Lab Project Number: GHE-T-746: DES 389/970905: AQ299/01. Unpublished study prepared by Huntingdon Life Sciences Ltd. 62 p. {OPPTS 850.4400}
45000432	Handley, J. et al. (1994) XRD-537 BE: Algal Inhibition Test: Lab Project Number: 413/12: GHF-R-286. Unpublished study prepared by Safepharm Laboratories Limited. 26 p.

123-1 Seed germination/seedling emergence and vegetative vigor

MRID	Citation Reference
45000430	Porch, J.; Krueger, H.; Roberts, D. (1999) Effect of Cyhalofop Soil Metabolites on Non-Target Terrestrial Plants (Tier I/II): Lab Project Number: 990026: 379-102. Unpublished study prepared by Wildlife International Ltd. 142 p. {OPPTS 850.4100, 850.4150, 850.4225, 850.4250}
45000431	Schwab, D. (1999) Effect of Cyhalofop-Butyl on the Seedling Emergence and Vegetative Vigor of Non-Target Terrestrial Plants: Lab Project Number: ENV98052: 44918. Unpublished study prepared by ABC Laboratories, Inc. 77 p. {OPPTS 850.4100, 850.4150, 850.4225, 850.4250}

123-2 Aquatic plant growth

MRID	Citation Reference
45000429	Kirk, H.; Gilles, M.; Hugo, J. et al. (1999) Phytotoxicological Evaluation of DE-537 N-Butyl Ester Exposed Freshwater Diatom, Navicula pelliculosa: Lab Project Number: 991024. Unpublished study prepared by The Dow Chemical Company. 53 p.
45000433	Jenkins, C. et al. (1997) DE-537 Technical: Determination of 96-Hour EC50 to Anabaena: Lab Project Number: GHE-T-722: 96/DES388/1228: 96/1228. Unpublished study prepared by Huntingdon Life Science Ltd. 55 p. {OPPTS 850.4400}
45000434	Jenkins, C. et al. (1997) DE-537 Metabolite B (Diacid): Determination of 72-Hour EC50 to Selenastrum capricornutum: Lab Project Number: GHE-T-719: 96/DES395/1062: 96/1062. Unpublished study prepared by Huntingdon Life Science Ltd. 46 p. {OPPTS 850.4400}
45000435	Jenkins, C. et al. (1997) DE-537 Acid Metabolite: Determination of 72-Hour EC50 to Selenastrum capricornutum: Lab Project Number: GHE-T-757: 96/DES409/1168: 96/1168. Unpublished study prepared by Huntingdon Life Science Ltd. 49 p.

45000436 Jenkins, C. et al. (1997) DE-537 Amide Metabolite: Determination of 72-Hour EC50 to Selenastrum capricornutum: Lab Project Number: GHE-T-762: DES410/970237. Unpublished study prepared by Huntingdon Life Science Ltd. 46 p. {OPPTS 850.4400}

45000437 Kirk, H.; Gilles, M. (1999) Effect of 2-(4(4-Carboxy-2-Fluorophenoxy))Phenol (FHPBA), A Metabolite of XDE-537 nBU, on the Growth of the Freshwater Green Alga, Selenastrum capricornutum, Printz: Lab Project Number: 991153. Unpublished study prepared by The Dow Chemical Company. 23 p.

45000438 Kirk, H.; Gilles, M. (1999) Effect of (R)-4-Hydroxy-2-Phenoxypropionic Acid (HPPA), A Metabolite of XDE-537 nBU, on the Growth of the Freshwater Green Alga, Selenastrum capricornutum, Printz: Lab Project Number: 991152. Unpublished study prepared by The Dow Chemical Company. 23 p.

45000501 Kirk, H.; Gilles, M.; McClymont, E. et al. (1999) Phytotoxicological Evaluation of DE-537 N-Butyl Ester Exposed Saltwater Diatom, Skeletonema costatum: Lab Project Number: 991023. Unpublished study prepared by The Dow Chemical Co. 50 p.

141-1 Honey bee acute contact

MRID	Citation Reference
45000502	Palmer, S.; Beavers, J. (1994) XDE-537 nBu Herbicide: An Acute Contact Toxicity Study with the Honey Bee: Lab Project Number: 103-406A: DECO-ES-2818. Unpublished study prepared by Wildlife International Ltd. 21 p.
45000503	Reynolds, S. (1997) A Determination of Topical and Oral LD50s for DE-537 Against the Honey Bee, Apis mellifera: Lab Project Number: GHE-P-6268: 9709. Unpublished study prepared by Lincoln University. 18 p.

152-17 Genotoxicity detection

MRID	Citation Reference
45014711	Adams, K.; Ransome, S. (1996) DE-537 N-Butyl Ester--Mammalian Cell Mutation Assay: Lab Project Number: DWC 740/962438. Unpublished study prepared by Huntingdon Life Sciences Ltd. 51 p.

161-1 Hydrolysis

MRID	Citation Reference
45000510	Shimada, N. (1995) XRD-537 BE Hydrolysis Study: Lab Project Number: GHF-R-299: DPC/AE-1529-2G: AE-1529-2F. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 103 p.
45000511	Cook, W. (1999) Hydrolysis of Cyhalofop-butyl at pH 5, 7, and 9: Lab Project Number: 990053. Unpublished study prepared by Dow Agrosiences LLC. 38 p.

161-2 Photodegradation-water

MRID	Citation Reference
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45000512 Ohdake, J. (1992) XDE-537 N-Butyl Ester; Stability Under UV-Light (254nm): Lab Project Number: GHF-P 1184: 91-607-F. Unpublished study prepared by DowElanco Japan Ltd. 17 p.

45014712 Merritt, D.; Concha, M.; Shepler, K. (1994) Degradation Study: Photodegradation of (carbon-14)XRD-537 Butyl Ester (BE) in Sterilized Buffer at pH 5 and Synthetic Humic Water Buffered at pH 5 by Natural Sunlight: Lab Project Number: ENV93089: 426W. Unpublished study prepared by Huntingdon Life Sciences Ltd. 155 p.

161-3 Photodegradation-soil

MRID	Citation Reference
45000513	Ridge, M. (1997) Photodegradation of (carbon 14)-DE-537 on a Soil Surface: Lab Project Number: GHE-P-6158: 295/67. Unpublished study prepared by Covance Labs. 82 p. {OPPTS 835.2410}
45000514	Kennard, L. (1999) Photodegradation of (carbon 14) Cyhalofop-butyl on Aerobic Soil by Natural Sunlight: Lab Project Number: ENV98069. Unpublished study prepared by Dow AgroSciences LLC. 138 p.

161-4 Photodegradation-air

MRID	Citation Reference
45014713	Knowles, S. (1997) Estimation of Photochemical Oxidation of Cyhalofop-Butyl Ester: Lab Project Number: GHE-P-5967: P97-002. Unpublished study prepared by DowElanco Europe. 9 p.

162-1 Aerobic soil metabolism

MRID	Citation Reference
45000515	Yoder, R. (1999) Aerobic Soil Degradation of (carbon 14)-Cyhalofop-Butyl in Two U.S. Soils: Lab Project Number: ENV98060. Unpublished study prepared by Dow AgroSciences LLC. 64 p.
45000516	Cook, W. (1999) Aerobic Soil Degradation of (carbon-14)-Cyhalofop-butyl and its Degradates at 10 and 20(degrees centigrade): Lab Project Number: ENV98071. Unpublished study prepared by Dow AgroSciences LLC. 76 p.

162-2 Anaerobic soil metabolism

MRID	Citation Reference
45000517	Batzer, F. (1999) Anaerobic Metabolism of Cyhalofop-butyl: Lab Project Number: ENV98055. Unpublished study prepared by Dow AgroSciences LLC. 138 p.
45000524	Shimada, N. (1995) XRD-537 BE Soil Metabolism Study: Lab Project Number: GHF-R-300: DPC/AE-1529-3G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 208 p.

162-3 Anaerobic aquatic metab.

MRID	Citation Reference
45000517	Batzer, F. (1999) Anaerobic Metabolism of Cyhalofop-butyl: Lab Project Number: ENV98055. Unpublished study prepared by Dow AgroSciences LLC. 138 p.

162-4 Aerobic aquatic metab.

MRID	Citation Reference
45000518	Smith, J.; Graper, L.; Smith, K. (1999) Aerobic Aquatic Metabolism of (carbon 14)-Cyhalofop-butyl: Lab Project Number: ENV98034. Unpublished study prepared by Dow AgroSciences LLC. 72 p.

163-1 Leach/adsorp/desorption

MRID	Citation Reference
45000515	Yoder, R. (1999) Aerobic Soil Degradation of (carbon 14)-Cyhalofop-Butyl in Two U.S. Soils: Lab Project Number: ENV98060. Unpublished study prepared by Dow AgroSciences LLC. 64 p.
45000519	Heim, L.; Meitl, T. (1999) Batch Equilibrium Sorption of (carbon 14)-Cyhalofop-butyl and (carbon 14)-Cyhalofop-acid on Sterile Soils: Lab Project Number: 990038. Unpublished study prepared by Dow AgroSciences LLC. 249 p.
45000525	Shimada, N. (1995) XRD-537 BE Soil Leaching Study: Lab Project Number: GHF-R-301: DPC/AE-1529-4G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 98 p.
45014714	Jackson, R. (1997) The Sorption of DE-537 and its Degradation Products in Soil: Lab Project Number: 3Y: GHE-P-6033. Unpublished study prepared by DowElanco Europe. 53 p.

164-2 Aquatic field dissipation

MRID	Citation Reference
45000520	Knuteson, J.; Foster, D. (1999) Field Dissipation of Cyhalofop-butyl in USA Rice Culture Systems: Amended Report: Lab Project Number: ENV98033. Unpublished study prepared by Dow AgroSciences LLC. 243 p.
45000522	Olberding, E.; Yeh, L.; Foster, D. (1999) Validation Report for the Determination of Residues of Cyhalofop-butyl and Metabolites in Water by Capillary Gas Chromatography with Mass Spectrometry Detection and Liquid Chromatography with Mass Spectrometry Detection: Lab Project Number: RES98074. Unpublished study prepared by Dow AgroSciences LLC. 68 p. {OPPTS 850.7100}
45000523	Olberding, E.; Yeh, L.; Foster, D. et al. (1999) Validation Report for the Determination of Residues of Cyhalofop-butyl and Metabolites in Sediment and Soil by Liquid Chromatography with Mass Spectrometry Detection: Lab Project Number: RES98075. Unpublished study prepared by Dow AgroSciences LLC. 76 p. {OPPTS 850.7100}

165-1 Confined rotational crop

MRID	Citation Reference
45000527	Stafford, L.; Embrey, S. (1999) A Confined Rotational Crop Study with (carbon 14)Cyhalofop Butyl Using Wheat, Lettuce and Radish: Lab Project Number: RES98045. Unpublished study prepared by Dow AgroSciences LLC and Plant Sciences, Inc. 95 p. {OPPTS 860.1850}

165-4 **Bioaccumulation in fish**

MRID	Citation Reference
45000233	Rick, D.; Dittenber, D.; Markham, D. (1999) The Bioconcentration of DE-537 N-Butyl Ester by the Rainbow Trout, <i>Oncorhynchus mykiss</i> Walbaum: Lab Project Number: 991077. Unpublished study prepared by The Dow Chemical Company. 91 p.

171-4B **Residue Analytical Methods**

MRID	Citation Reference
45000534	Olberding, E. (1999) Validation Report for the Determination of Residues of Cyhalofop-butyl and Metabolites in Rice and Rice Processed Products by Capillary Gas Chromatography with Mass Spectrometry Detection: Lab Project Number: 990059. Unpublished study prepared by Dow AgroSciences LLC. 76 p. {OPPTS 860.1340}
45000535	Anderson, C. (1999) Multiresidue Method Testing for Cyhalofop-butyl According to PAM I, Appendix II, as Updated January, 1994: Lab Project Number: ACFS-45308: 45308. Unpublished study prepared by ABC Labs., Inc. 91 p. {OPPTS 860.1360}
45152502	Williams, B. (1999) Independent Laboratory Validation of Determination of Cyhalofop-butyl and DE-537 Metabolites in Water: Lab Project Number: 45519: 45518. Unpublished study prepared by ABC Laboratories, Inc. 70 p. {OPPTS 850.7100}
45204005	Kaiser, F. (2000) Independent Laboratory Validation of Determination of Residues of Cyhalofop-butyl and Metabolites in Rice and Rice Processed Products by Capillary Gas Chromatography with Mass Spectrometry Detection According to PR Notice 96-1 and OPPTS 860.1340 Guidelines: Lab Project Number: 45754: GRM 99.06. Unpublished study prepared by ABC Laboratories, Inc. 107 p. {OPPTS 860.1340}

171-4C **Magnitude of the Residue [by commodity]**

MRID	Citation Reference
45000536	Gardner, R.; Foster, D. (1999) Magnitude of Residue of Cyhalofop in Rice Grain, Straw and Processed Hulls, Bran and Polished Rice After Use of Clincher Herbicide: Lab Project Number: RES98031. Unpublished study prepared by Dow AgroSciences LLC. 145 p. {OPPTS 860.1500 and 860.1520}
45204002	Thomas, A.; Robb, C. (2000) Frozen Storage Stability of Cyhalofop-butyl and its Major Metabolites in Rice Grain and Straw: Lab Project Number: 990008. Unpublished study prepared by Dow AgroSciences LLC. 102 p. {OPPTS 860.1380}

171-4A2 Nature of the Residue in Plants

MRID	Citation Reference
45000529	Shimada, N. (1995) Metabolic Fate of XRD-537 BE in Rice Plant (1) Soil Treatment: Lab Project Number: GHF-R-302: DPC/AE-1529-5G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 122 p.
45000530	Shimada, N. (1995) Metabolic Fate of XRD-537 BE in Rice Plant (2) Foliar Treatment: Lab Project Number: GHF-R-303: AE-1529-6G. Unpublished study prepared by Daiichi Pure Chemicals Co., Ltd. 174 p.
45000532	Byrne, S.; Embrey, S. (1999) Nature of the Residue Study of (carbon 14) Cyhalofop-butyl in the Rice Plant After Foliar Application: Lab Project Number: RES98044. Unpublished study prepared by Dow AgroSciences LLC. and Plant Sciences, Inc. 120 p. {OPPTS 860.1300}

171-4A3 Nature of the Residue in Livestock

MRID	Citation Reference
45000531	Magnussen, J.; Buehrer, T. (1999) Nature of Residue in the Lactating Goat Using (carbon 14) Cyhalofop-butyl: Lab Project Number: RES98046: 44558. Unpublished study prepared by Dow AgroSciences LLC. 196 p. {OPPTS 860.1300}
45000533	Grafer, L.; Buehrer, T. (1999) Nature of the Residue Study in the Laying Hen Using (carbon 14) DE-537 BE: Lab Project Number: RES98035: 44559. Unpublished study prepared by Dow AgroSciences LLC. and ABC labs., Inc. 159 p. {OPPTS 860.1300}

830.1550 Product Identity and composition

MRID	Citation Reference
47534501	Ogawa, T.; Tidswell, J. (2008) Group A- Product Identity, Composition and Analysis for Clincher EZ Herbicide (GF-1887), an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/08/130, DAS/AM/G/08/020. Unpublished study prepared by Dow AgroSciences, LLC. 114 p.
47660601	Cobb, J. (2008) Group A: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of the Formulation Process, Discussion of Formation of Impurities and Certified Limits for Penoxsulam and Cyhalofop-butyl (GF-2352), an End Use Product. Project Number: NAFST/08/148, DAS/AM/G/08/24, 4407955HUS. Unpublished study prepared by Dow Agrosciences LLC. 146 p.
47834401	Boucher, R. (2009) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Methods for GF-2112, an End Use Product Containing Cyhalofop-Butyl. Project Number: NAFST/09/134, NAFST/09/134/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 117 p.
48051601	Boucher, R. (2010) Group A: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Certified Limits, and Enforcement Analytical Method for GF-1622 an End Use Product Containing Penoxsulam and Cyhalofop-butyl Technical. Project Number: NAFST/10/87/OCR, DAS/AM/05/017. Unpublished study prepared by Dow AgroSciences, LLC. 135 p.

48581301 Aulisa, L. (2011) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-2764, an End Use Product Containing Fluroxypyr-meptyl and Cyhalofop-butyl. Project Number: NAFST/11/74, NAFST/11/74/OCR, DAS/AM/G/11/18. Unpublished study prepared by Dow AgroSciences, LLC. 118p.

48604201 Dave, H.; Speak, T. (2011) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits and Enforcement Analytical Method for GF-2803, an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/11/219/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 126p.

48604301 Dave, H. (2011) Group A-Product Identity and Composition, Description of Materials Used to Product the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-2804, an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/11/224/OCR, NAFST/11/224. Unpublished study prepared by Dow AgroSciences, LLC. 126p.

49678101 Wujek, D. (2015) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-3480, an End Use Product. Project Number: NAFST/15/121. Unpublished study prepared by Dow AgroSciences LLC. 103p.

50433101 Nelson, R.; Wujek, D. (2017) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-3479, an End Use Product Containing Florpyrauxifen-benzyl and Cyhalofop-butyl ester. Project Number: NAFST/171301, DAS/AM/G/16/13. Unpublished study prepared by Dow AgroSciences LLC. 126p.

830.1600 Description of materials used to produce the product

MRID	Citation Reference
47534501	Ogawa, T.; Tidswell, J. (2008) Group A- Product Identity, Composition and Analysis for Clincher EZ Herbicide (GF-1887), an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/08/130, DAS/AM/G/08/020. Unpublished study prepared by Dow AgroSciences, LLC. 114 p.
47660601	Cobb, J. (2008) Group A: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of the Formulation Process, Discussion of Formation of Impurities and Certified Limits for Penoxsulam and Cyhalofop-butyl (GF-2352), an End Use Product. Project Number: NAFST/08/148, DAS/AM/G/08/24, 4407955HUS. Unpublished study prepared by Dow Agrosiences LLC. 146 p.
47834401	Boucher, R. (2009) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Methods for GF-2112, an End Use Product Containing Cyhalofop-Butyl. Project Number: NAFST/09/134, NAFST/09/134/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 117 p.
48051601	Boucher, R. (2010) Group A: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Certified Limits, and Enforcement Analytical Method for GF-1622 an End Use Product Containing Penoxsulam and Cyhalofop-butyl Technical. Project Number: NAFST/10/87/OCR, DAS/AM/05/017. Unpublished study prepared by Dow AgroSciences, LLC. 135 p.
48581301	Aulisa, L. (2011) Group A-Product Identity and Composition, Description of Materials Used to Produce the

Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-2764, an End Use Product Containing Fluroxypyr-meptyl and Cyhalofop-butyl. Project Number: NAFST/11/74, NAFST/11/74/OCR, DAS/AM/G/11/18. Unpublished study prepared by Dow AgroSciences, LLC. 118p.

48604201 Dave, H.; Speak, T. (2011) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits and Enforcement Analytical Method for GF-2803, an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/11/219/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 126p.

48604301 Dave, H. (2011) Group A-Product Identity and Composition, Description of Materials Used to Product the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-2804, an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/11/224/OCR, NAFST/11/224. Unpublished study prepared by Dow AgroSciences, LLC. 126p.

49678101 Wujek, D. (2015) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-3480, an End Use Product. Project Number: NAFST/15/121. Unpublished study prepared by Dow AgroSciences LLC. 103p.

50433101 Nelson, R.; Wujek, D. (2017) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-3479, an End Use Product Containing Florpyrauxifen-benzyl and Cyhalofop-butyl ester. Project Number: NAFST/171301, DAS/AM/G/16/13. Unpublished study prepared by Dow AgroSciences LLC. 126p.

830.1620 Description of production process

MRID	Citation Reference
47834401	Boucher, R. (2009) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Methods for GF-2112, an End Use Product Containing Cyhalofop-Butyl. Project Number: NAFST/09/134, NAFST/09/134/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 117 p.
48051601	Boucher, R. (2010) Group A: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Certified Limits, and Enforcement Analytical Method for GF-1622 an End Use Product Containing Penoxsulam and Cyhalofop-butyl Technical. Project Number: NAFST/10/87/OCR, DAS/AM/05/017. Unpublished study prepared by Dow AgroSciences, LLC. 135 p.

830.1650 Description of formulation process

MRID	Citation Reference
47534501	Ogawa, T.; Tidswell, J. (2008) Group A- Product Identity, Composition and Analysis for Clincher EZ Herbicide (GF-1887), an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/08/130, DAS/AM/G/08/020. Unpublished study prepared by Dow AgroSciences, LLC. 114 p.
47660601	Cobb, J. (2008) Group A: Product Identity and Composition, Description of Materials Used to Produce the

Product, Description of the Formulation Process, Discussion of Formation of Impurities and Certified Limits for Penoxsulam and Cyhalofop-butyl (GF-2352), an End Use Product. Project Number: NAFST/08/148, DAS/AM/G/08/24, 4407955HUS. Unpublished study prepared by Dow Agrosciences LLC. 146 p.

47834401 Boucher, R. (2009) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Methods for GF-2112, an End Use Product Containing Cyhalofop-Butyl. Project Number: NAFST/09/134, NAFST/09/134/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 117 p.

48581301 Aulisa, L. (2011) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-2764, an End Use Product Containing Fluroxypyr-meptyl and Cyhalofop-butyl. Project Number: NAFST/11/74, NAFST/11/74/OCR, DAS/AM/G/11/18. Unpublished study prepared by Dow AgroSciences, LLC. 118p.

48604201 Dave, H.; Speak, T. (2011) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production and Formulation Process, Discussion of Formation of Impurities, Certified Limits and Enforcement Analytical Method for GF-2803, an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/11/219/OCR. Unpublished study prepared by Dow AgroSciences, LLC. 126p.

48604301 Dave, H. (2011) Group A-Product Identity and Composition, Description of Materials Used to Product the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-2804, an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/11/224/OCR, NAFST/11/224. Unpublished study prepared by Dow AgroSciences, LLC. 126p.

49678101 Wujek, D. (2015) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-3480, an End Use Product. Project Number: NAFST/15/121. Unpublished study prepared by Dow AgroSciences LLC. 103p.

50433101 Nelson, R.; Wujek, D. (2017) Group A-Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for GF-3479, an End Use Product Containing Florpyrauxifen-benzyl and Cyhalofop-butyl ester. Project Number: NAFST/171301, DAS/AM/G/16/13. Unpublished study prepared by Dow AgroSciences LLC. 126p.

830.1670 Discussion of formation of impurities

MRID	Citation Reference
47534501	Ogawa, T.; Tidswell, J. (2008) Group A- Product Identity, Composition and Analysis for Clincher EZ Herbicide (GF-1887), an End Use Product Containing Cyhalofop-butyl. Project Number: NAFST/08/130, DAS/AM/G/08/020. Unpublished study prepared by Dow AgroSciences, LLC. 114 p.
47660601	Cobb, J. (2008) Group A: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of the Formulation Process, Discussion of Formation of Impurities and Certified Limits for Penoxsulam and Cyhalofop-butyl (GF-2352), an End Use Product. Project Number: NAFST/08/148, DAS/AM/G/08/24, 4407955HUS. Unpublished study prepared by Dow Agrosciences LLC. 146 p.
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830.1700 Preliminary analysis

MRID	Citation Reference
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830.1750 Certified limits

MRID	Citation Reference
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830.1800 Enforcement analytical method

MRID	Citation Reference
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830.6302 Color

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830.6303 Physical state

MRID	Citation Reference
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830.6304 **Odor**

MRID	Citation Reference
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830.6314 **Oxidizing or reducing action**

MRID	Citation Reference
47534502	Jones, J.; Frank, A. (2008) Determination of Color, Odor, Physical State, Oxidizing and Reducing Action, Flashpoint, Explodability, pH, Viscosity, and Density of GF-1887, an End Use Product Containing Cyhalofop-butyl R Isomer. Project Number: FAPC08/175149. Unpublished study prepared by Dow AgroSciences, LLC. 19 p.
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830.6315 **Flammability**

MRID	Citation Reference
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830.6316 **Exploability**

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MRID	Citation Reference
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830.6320 Corrosion characteristics

MRID	Citation Reference
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830.7000 pH

MRID	Citation Reference
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830.7100 Viscosity

MRID	Citation Reference
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830.7300 Density/relative density

MRID	Citation Reference
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830.7520 Particle size, fiber length, and diameter distribution

MRID	Citation Reference
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850.1010 Aquatic invertebrate acute toxicity, test, freshwater daphnids

MRID	Citation Reference
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850.1075 Fish acute toxicity test, freshwater and marine

MRID	Citation Reference
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850.2100 Avian acute oral toxicity test

MRID	Citation Reference
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850.3020 Honey bee acute contact toxicity

MRID	Citation Reference
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850.4100 Terrestrial plant toxicity, Tier 1 (seeding emergence)

MRID	Citation Reference
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850.4150 Terrestrial plant toxicity, Tier 1 (vegetative vigor)

MRID	Citation Reference
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850.4500 Algal Toxicity

MRID	Citation Reference
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860.1500 Crop field trials

MRID	Citation Reference
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870.1100 Acute oral toxicity

MRID	Citation Reference
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870.1200 Acute dermal toxicity

MRID	Citation Reference
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870.1300 Acute inhalation toxicity

MRID	Citation Reference
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870.2400 Acute eye irritation

MRID	Citation Reference
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870.2500 Acute dermal irritation

MRID	Citation Reference
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870.2600 Skin sensitization

MRID	Citation Reference
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870.3465 90-day inhalation toxicity

MRID	Citation Reference
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870.7800 Immunotoxicity

MRID	Citation Reference
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MRID	Citation Reference
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